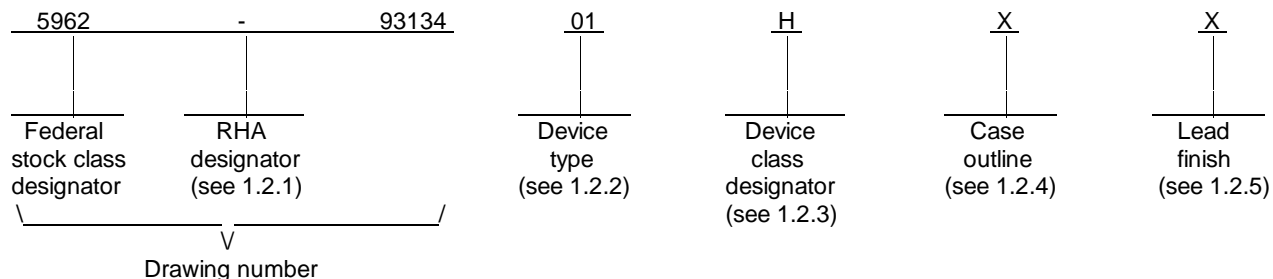


NOTICE OF REVISION (NOR)				1. DATE (YYMMDD) 93-11-30		Form Approved OMB No. 0704-0188											
THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.																	
<small>Public reporting burden for this collection is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/ PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</small>						2. PROCURING ACTIVITY NO.											
						3. DODAAC											
4. ORIGINATOR		b. ADDRESS (Street, City, State, Zip Code) Defense Electronics Supply Center 1507 Wilmington Pike Dayton, OH 45444-5270		5. CAGE CODE 67268		6. NOR NO. 5962-R055-94											
a. TYPED NAME (First, Middle Initial, Last)				7. CAGE CODE 67268		8. DOCUMENT NO. 5962-93134											
9. TITLE OF DOCUMENT MICROCIRCUIT, LINEAR, VOLTAGE REGULATOR, HYBRID				10. REVISION LETTER		11. ECP NO.											
		a. CURRENT						b. NEW A									
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES All																	
13. DESCRIPTION OF REVISION Sheet 1: Revisions ltr column; add "A". Revisions description column; add "Changes in accordance with NOR 5962-R055-94". Revisions date column; add "93-11-30". Revision level block; add "A". Rev status of sheets; for sheets 1, and 8 add "A" to revision block. Sheet 8: FIGURE I. <u>Case outline</u> . 1. Delete dimension X from drawing and conversion table. 2. Extend arrow of dimension ϕ D from the outer circle to the inner circle of the package drawing. 3. Change L dimension as follows: <div style="margin-left: 40px;"> from: <table border="1" style="margin-left: 100px; border-collapse: collapse;"> <tr> <td style="padding: 2px 10px;">L</td> <td style="width: 20px;"></td> <td style="padding: 2px 10px;">6.35</td> <td style="width: 20px;"></td> <td style="padding: 2px 10px;">.250</td> </tr> </table> to: <table border="1" style="margin-left: 100px; border-collapse: collapse;"> <tr> <td style="padding: 2px 10px;">L</td> <td style="width: 20px; padding: 2px 10px;">6.10</td> <td style="width: 20px;"></td> <td style="padding: 2px 10px;">.240</td> <td style="padding: 2px 10px;">.260</td> </tr> </table> </div>								L		6.35		.250	L	6.10		.240	.260
L		6.35		.250													
L	6.10		.240	.260													

1. SCOPE

1.1 Scope. This drawing forms a part of a one part - one part number documentation system (see 6.6 herein). This drawing describes device requirements for hybrid microcircuits to be processed in accordance with MIL-H-38534. Two product assurance classes consisting of military high reliability (device class H) and space application (device class K), and a choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance (RHA) levels are reflected in the PIN.

1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 RHA designator. Device classes H and K RHA marked devices shall meet the MIL-H-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device type(s). The device type(s) shall identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	ARX5006	Voltage regulator.
02	ARX5007	Voltage regulator.
03	ARX5008	Voltage regulator.
04	ARX5009	Voltage regulator.
05	ARX5010	Voltage regulator.
06	ARX5011	Voltage regulator.

1.2.3 Device class designator. The device class designator shall be a single letter identifying the product assurance level as follows:

<u>Device class</u>	<u>Device requirements documentation</u>
H	Certification and qualification to MIL-H-38534

1.2.4 Case outline(s). The case outline(s) shall be as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
X	See figure 1	02	Can package

1.2.5 Lead finish. The lead finish shall be as specified in MIL-H-38534 for classes H and K. Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.

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1.3 Absolute maximum ratings. 1/

Input voltage (V_{IN})	± 30 V dc continuous
Input voltage (V_{IN})	± 36 V dc for 100 μ s
Operating junction temperature	+150° C
Storage temperature range	-65° C to +150° C
Maximum thermal resistance, each pass transistor	1.0 ° C/W
Maximum weight	15 grams

1.4 Recommended operating conditions.

Operating case temperature range	-55° C to +125° C
Input voltage range	± 17.5 V dc to ± 25 V dc

2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbook. Unless otherwise specified, the following specification, standards, and handbook of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

SPECIFICATION

MILITARY

MIL-H-38534 - Hybrid Microcircuits, General Specification for.

STANDARDS

MILITARY

MIL-STD-480 - Configuration Control-Engineering Changes, Deviations and Waivers.

MIL-STD-883 - Test Methods and Procedures for Microelectronics.

MIL-STD-1835 - Microcircuit Case Outlines.

HANDBOOK

MILITARY

MIL-HDBK-780 - Standardized Military Drawings.

(Copies of the specification, standards, and handbook required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.

1/ Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

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3. REQUIREMENTS

3.1 Item requirements. The individual item requirements shall be in accordance with MIL-H-38534 and as specified herein.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-H-38534 and herein.

3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.2.3 Test circuit(s). The test circuits shall be as specified on figure 3 and 4.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are described in table I.

3.5 Marking. Marking shall be in accordance with MIL-H-38534. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in QML-38534.

3.6 Manufacturer eligibility. In addition to the general requirements of MIL-H-38534, the manufacturer of the part described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, produced on the certified line, for each device type listed herein. The data should also include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DESC-EC) upon request.

3.7 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance submitted to DESC-EC shall affirm that the manufacturer's product meets the requirements of MIL-H-38534 and the requirements herein.

3.8 Certificate of conformance. A certificate of conformance as required in MIL-H-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-H-38534.

4.2 Screening. Screening shall be in accordance with MIL-H-38534. The following additional criteria shall apply:

a. Burn-in test, method 1015 of MIL-STD-883.

(1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DESC-EC or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015.

(2) T_C as specified in accordance with table I of method 1015 of MIL-STD-883.

b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_C \leq +125^{\circ}\text{C}$ See figure 3 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Load regulation	V_R Load	$V_{IN} = +17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = +1.0\text{ A}$	1, 2, 3	1	4.9	5.1	V
Load regulation	V_R Load	$V_{IN} = -17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = -1.0\text{ A}$	1, 2, 3	2	-5.3	-5.1	V
Load regulation	V_R Load	$V_{IN} = +17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = +2.5\text{ A}$	1, 2, 3	3	14.7	15.3	V
Load regulation	V_R Load	$V_{IN} = -17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = -2.5\text{ A}$	1, 2, 3	4	-15.3	-14.7	V
Load regulation	V_R Load	$V_{IN} = +17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = +0.9\text{ A}$, $I_{O3} = +1.2\text{ A}$	1, 2, 3	5	4.9 4.95 4.95	5.1 5.05 5.05	V
Load regulation	V_R Load	$V_{IN} = -17.5\text{ V}$, $I_{O1} = 0\text{ A}$, $I_{O2} = -0.425\text{ A}$, $I_{O3} = -0.625\text{ A}$, $I_{O4} = -1.0\text{ A}$	1, 2, 3	6	-5.3 -5.25 -5.25 -5.3	-5.1 -5.15 -5.15 -5.1	V
Line regulation	V_R Line	$V_{IN1} = +17.5\text{ V}$, $V_{IN2} = +25.0\text{ V}$, $I_O = +1.0\text{ A}$	1, 2, 3	1, 5	4.9	5.1	V
Line regulation	V_R Line	$V_{IN1} = -17.5\text{ V}$, $V_{IN2} = -25.0\text{ V}$, $I_O = -1.0\text{ A}$	1, 2, 3	2, 6	-5.3	-5.1	V
Line regulation	V_R Line	$V_{IN1} = +17.5\text{ V}$, $V_{IN2} = +25.0\text{ V}$, $I_O = +2.5\text{ A}$	1, 2, 3	3	14.7	15.3	V
Line regulation	V_R Line	$V_{IN1} = -17.5\text{ V}$, $V_{IN2} = -25.0\text{ V}$, $I_O = -2.5\text{ A}$	1, 2, 3	4	-15.3	-14.7	V

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_C \leq +125^{\circ}\text{C}$ See figure 3 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Ripple Rejection	V_{RR1}	$V_{IN} = +22.0\text{ V}$, $I_O = +1.0\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	1, 5	45		dB
Ripple Rejection	V_{RR2}	$V_{IN} = +18.5\text{ V}$, $I_O = +1.0\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	1, 5	40		dB
Ripple Rejection	V_{RR1}	$V_{IN} = -22.0\text{ V}$, $I_O = -1.0\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	2, 6	45		dB
Ripple Rejection	V_{RR2}	$V_{IN} = -18.5\text{ V}$, $I_O = -1.0\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	2, 6	40		dB
Ripple Rejection	V_{RR1}	$V_{IN} = +22.0\text{ V}$, $I_O = +2.5\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	3	45		dB
Ripple Rejection	V_{RR2}	$V_{IN} = +18.5\text{ V}$, $I_O = +2.5\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	3	40		dB
Ripple Rejection	V_{RR1}	$V_{IN} = -22.0\text{ V}$, $I_O = -2.5\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	4	45		dB
Ripple Rejection	V_{RR2}	$V_{IN} = -18.5\text{ V}$, $I_O = -2.5\text{ A}$, $e_{IN} = .2\text{ to }2.0\text{ V}_{p-p}$, $f = 150\text{ KHz}$	4, 5, 6	4	40		dB
Output Current Limit protection	I_{OLP}	$V_{IN} = +22.0\text{ V}$	1, 2, 3	1, 5	+1.5	+3.5	A
				3	+3.4	+7.0	
	I_{OLP}	$V_{IN} = -22.0\text{ V}$	1, 2, 3	2, 6	-3.5	-1.5	A
				4	-7.0	-3.0	

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions $-55^{\circ}\text{C} \leq T_C \leq +125^{\circ}\text{C}$ See figure 3 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Output Short circuit protection	IOS	$V_{IN} = +22.0\text{ V}$, $I_O = +1.0\text{ A}$, Short output (pin 2) for a minimum of 1 second	1, 2, 3	1, 5	0.1	1.0	A
				3	0.1	1.2	
	IOS	$V_{IN} = +22.0\text{ V}$, $I_O = +1.0\text{ A}$, Short output (pin 2) for a minimum of 1 second	1, 2, 3	2, 6	0.1	1.0	A
				4	0.1	1.2	
Negative output Latch-up		V_{IN} to device type 03 = +20 V, then apply -20 V to device type 04, see figure 4	1, 2, 3	3, 4 tie together	-15.3	-14.7	V
Positive output Latch-up		V_{IN} to device type 03 = +20 V, then apply -20 V to device type 04, see figure 4	1, 2, 3	3, 4 tie together	+14.7	+15.3	V

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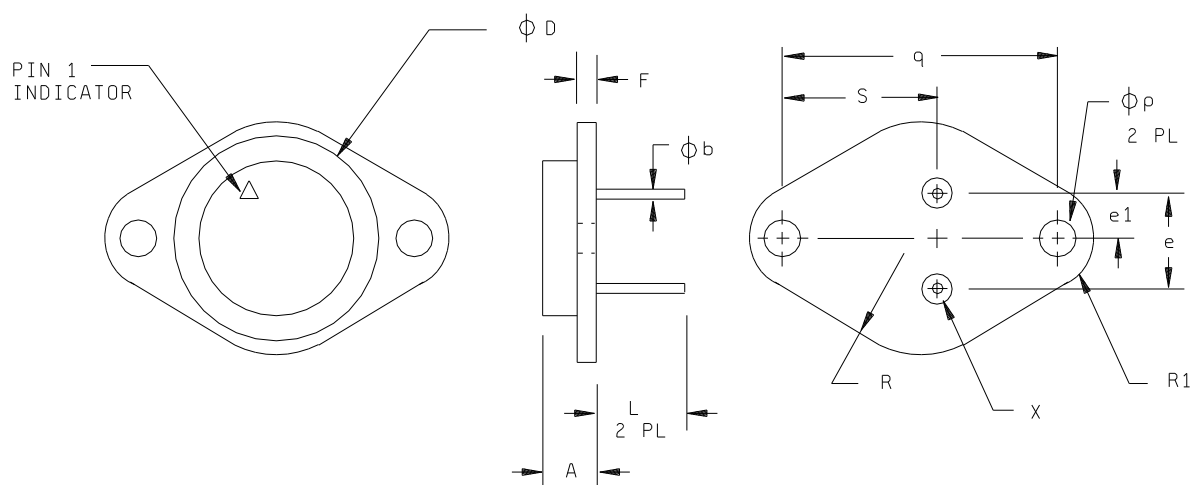
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Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		8.13		.320
ϕb	0.97	1.09	.038	.043
ϕD		22.13		.875
e	10.67	11.18	.420	.440
e1	5.21	5.72	.205	.225
F	1.52	3.43	.060	.135
L		6.35		.250
q	29.90	30.40	1.177	1.197
ϕp	3.83	4.08	.151	.161
R	12.57	13.33	.495	.525
R1	3.32	4.77	.131	.188
S	16.63	17.14	.655	.675
X	3.55	3.63	.140	.143

FIGURE 1. Case outline.

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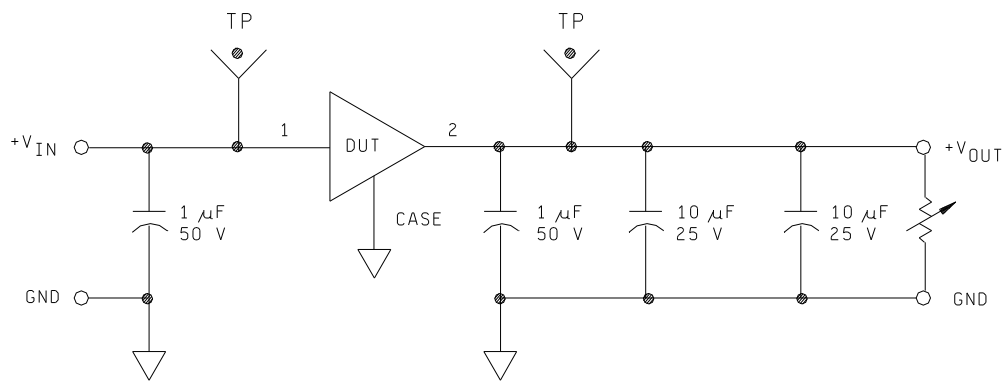
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Device type	01-06
Case outline	X
Terminal number	Function
1	V_{IN}
2	V_{OUT}

NOTE: CASE is used for ground.

FIGURE 2. Terminal connections.



NOTE: Test points shall be located less than one inch from the case of the device.

FIGURE 3. Test circuit.

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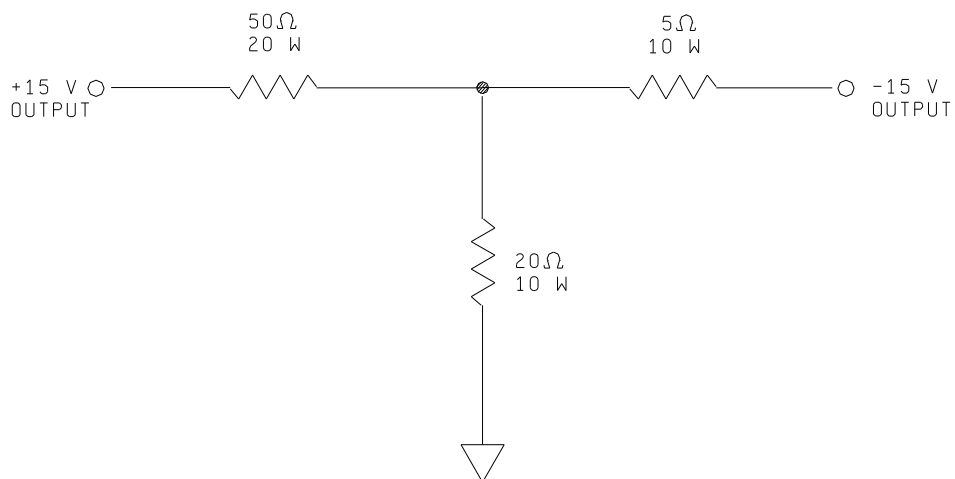


FIGURE 4. Latch-up load test circuit.

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TABLE II. Electrical test requirements.

MIL-STD-883 test requirements	Subgroups (in accordance with MIL-H-38534, group A test table)
Interim electrical parameters	1, 4, 7
Final electrical test parameters	1 [*] , 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1, 2, 3
Group E end-point electrical parameters for RHA devices	Subgroups ** (in accordance with method 5005, group A test table)

* PDA applies to subgroup 1.

** When applicable to this standardized military drawing, the subgroups shall be defined.

4.3 Quality conformance inspection. Quality conformance inspection shall be in accordance with MIL-H-38534 and as specified herein.

4.3.1 Group A inspection. Group A inspection shall be in accordance with MIL-H-38534 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 7, 8, 9, 10, and 11 shall be omitted.

4.3.2 Group B inspection. Group B inspection shall be in accordance with MIL-H-38534.

4.3.3 Group C inspection. Group C inspection shall be in accordance with MIL-H-38534 and as follows:

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DESC-EC or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005.
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

4.3.4 Group D inspection. Group D inspection shall be in accordance with MIL-H-38534.

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4.3.5 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein). RHA levels for device classes H and K shall be M, D, R, and H. RHA quality conformance inspection sample tests shall be performed at the RHA level specified in the acquisition document.

- a. RHA tests for device classes H and K for levels M, D, R, and H shall be performed through each level to determine at what levels the devices meet the RHA requirements. These RHA tests shall be performed for initial qualification and after design or process changes which may affect the RHA performance of the device.
- b. End-point electrical parameters shall be as specified in table II herein.
- c. Prior to total dose irradiation, each selected sample shall be assembled in its qualified package. It shall pass the specified group A electrical parameters in table I for subgroups specified in table II herein.
- d. For device classes H and K, the devices shall be subjected to radiation hardness assured tests as specified in MIL-H-38534 for RHA level being tested, and meet the postirradiation end-point electrical parameter limits as defined in table I at $T_A = +25^\circ\text{C} \pm 5$ percent, after exposure.
- e. Prior to and during total dose irradiation testing, the devices shall be biased to establish a worst case condition as specified in the radiation exposure circuit.
- f. For device classes H and K, subgroups 1 and 2 in table V, method 5005 of MIL-STD-883 shall be tested as appropriate for device construction.
- g. When specified in the purchase order or contract, a copy of the RHA delta limits shall be supplied.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-H-38534.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-481 using DD Form 1693, Engineering Change Proposal (Short Form).

6.4 Record of users. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DESC-EC, telephone (513) 296-6047.

6.5 Comments. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone (513) 296-5373.

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6.6 One part - one part number system. The one part - one part number system described below has been developed to allow for transitions between identical generic devices covered by the four major microcircuit requirements documents (MIL-M-38510, MIL-H-38534, MIL-I-38535, and 1.2.1 of MIL-STD-883) without the necessity for the generation of unique PIN's. The four military requirements documents represent different class levels, and previously when a device manufacturer upgraded military product from one class level to another, the benefits of the upgraded product were unavailable to the Original Equipment Manufacturer (OEM), that was contractually locked into the original unique PIN. By establishing a one part number system covering all four documents, the OEM can acquire to the highest class level available for a given generic device to meet system needs without modifying the original contract parts selection criteria.

<u>Military documentation format</u>	<u>Example PIN under new system</u>	<u>Manufacturing source listing</u>	<u>Document listing</u>
New MIL-M-38510 Military Detail Specifications (in the SMD format)	5962-XXXXXZZ(B or S)YY (Part 1 or 2)	QPL-38510	MIL-BUL-103
New MIL-H-38534 Standardized Military Drawings	5962-XXXXXZZ(H or K)YY	QML-38534	MIL-BUL-103
New MIL-I-38535 Standardized Military Drawings	5962-XXXXXZZ(Q or V)YY	QML-38535	MIL-BUL-103
New 1.2.1 of MIL-STD-883 Standardized Military Drawings	5962-XXXXXZZ(M)YY	MIL-BUL-103	MIL-BUL-103

6.7 Sources of supply for device classes H and K. Sources of supply for device classes H and K are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DESC-EC and have agreed to this drawing.

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STANDARDIZED MILITARY DRAWING SOURCE APPROVAL BULLETIN

DATE: 93-11-28

Approved sources of supply for SMD 5962-93134 are listed below for immediate acquisition only and shall be added to QML-38534 during the next revision. QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DESC-EC. This bulletin is superseded by the next dated revision of QML-38534.

Standardized military drawing PIN	Vendor CAGE number	Vendor similar PIN <u>1/</u>
5962-9313401HXX	88379	ARX5006
5962-9313402HXX	88379	ARX5007
5962-9313403HXX	88379	ARX5008
5962-9313404HXX	88379	ARX5009
5962-9313405HXX	88379	ARX5010
5962-9313406HXX	88379	ARX5011

1/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE
number

88379

Vendor name
and address

Aeroflex Laboratories
35 South Service Road
Plainview, NY 11803

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